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1 LMDS/LMCS hub interconnection alternatives and multiple access issues

G. M. Stamatelos, V. N. Koukoulidis
May   Wireless Networks,   Volume 6 Issue 3
2000
Publisher: Kluwer Academic Publishers
Full text available: pdf(149.41 KB)

Additional Information: full citation, abstract, references, index terms

LMDS/LMCS is a broadband wireless local loop, millimeter‐wave alternative to emerging integrated multiservice access networks. Significantly large amounts of bandwidth – in the order of one GHz of spectrum – are made available to residential ...

**2** Painting with looks: photographic images from video using quantimetric processing

Steve Mann, Corey Manders, James Fung
December   MULTIMEDIA '02: Proceedings of the tenth ACM international
2002   conference on Multimedia
Publisher: ACM

Full text available: pdf(861.14 KB)   Additional Information: full citation, abstract, references, cited by

When we ask the fundamental question "What does a camera measure?", we arrive at the concept of quantimetric imaging, which uses a new quantimetric unit, q, characteristic of a particular camera (e.g. each kind of camera defines its own quantimetric ...

Keywords: comparametric equations, comparametrics, image processing, multiple exposures, video

3 VOR base stations for indoor 802.11 positioning

Drago• Niculescu, Badri Nath
September   MobiCom '04: Proceedings of the 10th annual international conference
2004   on Mobile computing and networking
Publisher: ACM

Full text available: pdf(732.15 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Angle of arrival (AOA) has previously been used for outdoor positioning in aircraft navigation and for services like E911. For indoor positioning, the best schemes to date rely either on extensive infrastructure, or on sampling of the signal strength ...

Keywords: 802.11, AOA, VOR, VORBA, indoor positioning, ranging

4 Mobility-based anomaly detection in cellular mobile networks

Bo Sun, Fei Yu, Kui Wu, Victor C. M. Leung
October   WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security
2004
Publisher: ACM

Full text available: pdf(164.52 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents an efficient on-line anomaly detection algorithm that can effectively identify a group of especially harmful *internal* attackers - *masqueraders* in cellular mobile networks. Our scheme is derived from a well-developed ...

Keywords: anomaly detection, cellular mobile networks, data compression

5 Multi-objective optimization in area coverage problems for cellular communication networks: evaluation of an elitist evolutionary strategy

Larry Raisanen, Roger M. Whitaker
March   SAC '03: Proceedings of the 2003 ACM symposium on Applied computing
2003
Publisher: ACM

Full text available: pdf(567.00 KB)   Additional Information: full citation, abstract, references, index terms

Cellular wireless networks transmit signals from base stations, over an area commonly referred to a as a cell, to provide local area coverage to subscribers. As the power of transmission is restricted, multiple cells are required to provide wide area ...

Keywords: cell planning, evolutionary algorithm, multi-objective problem

6 Coordinated load balancing, handoff/cell-site selection, and scheduling in multi-cell packet data systems

Aimin Sang, Xiaodong Wang, Mohammad Madihian, Richard D. Gitlin
September   MobiCom '04: Proceedings of the 10th annual international conference
2004   on Mobile computing and networking
Publisher: ACM

Full text available: pdf(312.56 KB)   Additional Information: full citation, abstract, references, index terms

We investigate a wireless system of multiple cells, each having a downlink shared channel in support of high-speed packet data services. In practice, such a system consists of hierarchically organized entities including a central server, Base Stations ...

Keywords: HDR, HSDPA, cell-site selection, handoff, load balancing, multi-cell, opportunistic scheduling

7 Monitoring deployed software using software tomography

Jim Bowring, Alessandro Orso, Mary Jean Harrold
November   PASTE '02: Proceedings of the 2002 ACM SIGPLAN-SIGSOFT workshop
2002   on Program analysis for software tools and engineering
Publisher: ACM

Full text available: pdf(142.43 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Software products are often released with missing functionality or errors that result in failures in the field. In previous work, we presented the Gamma technology, which facilitates remote monitoring of deployed software and allows for a prompt ...

Keywords: code coverage, gamma technology, software engineering, software tomography, tomographic refinement

8 Monitoring deployed software using software tomography

Jim Bowring, Alessandro Orso, Mary Jean Harrold
January   ACM SIGSOFT Software Engineering Notes,   Volume 28 Issue 1
2003
Publisher: ACM

Full text available: pdf(142.43 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Software products are often released with missing functionality or errors that result in failures in the field. In previous work, we presented the Gamma technology, which facilitates remote monitoring of deployed software and allows for a prompt ...

Keywords: code coverage, gamma technology, software engineering, software tomography, tomographic refinement

9 Opportunistic multi-access: multiuser diversity, relay-aided opportunistic scheduling, and traffic-aided smooth admission control

Ming Hu, Junshan Zhang
August   Mobile Networks and Applications,   Volume 9 Issue 4
2004
Publisher: Kluwer Academic Publishers

Full text available: pdf(251.90 KB)   Additional Information: full citation, abstract, references, index terms

We study multi-access control in opportunistic communication systems, and propose two new schemes to address channel asymmetry and throughput-guaranteed admission control, respectively. We first devise a relay-aided opportunistic scheduling (RAOS) scheme, ...

Keywords: admission control, multiuser diversity, opportunistic scheduling, relaying

10 Modeling of transmission lines with EM wave coupling by the finite difference quadrature method

Qinwei Xu, Pinaki Mazumder
April   GLSVLSI '04: Proceedings of the 14th ACM Great Lakes symposium on VLSI
2004
Publisher: ACM

Full text available: pdf(180.45 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes an efficient numerical approximation technique, called the Finite Difference Quadrature (FDQ) Method, which has been adapted to model transmission lines (TL's) with external EM wave coupling. The finite difference quadrature method ...

Keywords: EM wave coupling, EMI noise, finite difference quadrature method, transient simulation, transmission line

11 Augmenting the virtual domain with physical and social elements: towards a paradigm shift in computer entertainment technology

Carsten Magerkurth, Timo Engelke, Maral Memisoglu
September   ACE '04: Proceedings of the 2004 ACM SIGCHI International Conference
2004   on Advances in computer entertainment technology
Publisher: ACM

Full text available: pdf(4.37 MB)   Additional Information: full citation, abstract, references, cited by, index terms

In this paper, means of enriching computer entertainment experiences by emphasizing physical and social game elements are discussed. A conceptual framework in which the relations between the virtual, the physical, and the social domains are modelled ...

Keywords: computer games, entertainment, hybrid environments, tabletop games, tangible interfaces

12 A scalable model for channel access protocols in multihop ad hoc networks

Marcelo M. Carvalho, J. J. Garcia-Luna-Aceves
September   MobiCom '04: Proceedings of the 10th annual international conference
2004   on Mobile computing and networking
Publisher: ACM

Full text available: pdf(313.84 KB)   Additional Information: full citation, abstract, references, cited by, index terms

A new modeling framework is introduced for the analytical study of medium access control (MAC) protocols operating in multihop ad hoc networks. The model takes into account the effect of physical-layer parameters on the success of transmissions, the ...

Keywords: ad hoc networks, medium access control, modeling, performance evaluation

13 802.11b access point mapping

Simon Byers, Dave Kormann
May 2003   Communications of the ACM,   Volume 46 Issue 5
Publisher: ACM

Full text available: pdf(151.86 KB) html(30.48 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Considering some of the practical issues encountered when finding and mapping wireless network access points.

14 A high-level design and optimization tool for analog RF receiver front-ends

Jan Crols, Stéphane Donnay, Michiel Steyaert, Georges Gielen
December 1995   ICCAD '95: Proceedings of the 1995 IEEE/ACM international conference on Computer-aided design
Publisher: IEEE Computer Society

Full text available: pdf(61.51 KB) Publisher Site

Additional Information: full citation, abstract, references, cited by, index terms

This paper presents a high-level analysis and optimization tool for the design of analog RF receiver front-ends, which takes all design parameters and all aspects of performance degradation (noise, distortion, self-mixing...) into account. The simulations ...

Keywords: analog CAD, analog high-level synthesis, RF design and optimization

15 ACM SIGCOMM Computer Communication Review: Volume 32 Issue 2

April 2002   issue   Volume 32 Issue 2
Publisher: ACM

Additional Information: full citation, index terms

16 Hardware design experiences in ZebraNet

Pei Zhang, Christopher M. Sadler, Stephen A. Lyon, Margaret Martonosi
November   SenSys '04: Proceedings of the 2nd international conference on
2004   Embedded networked sensor systems
Publisher: ACM

Full text available: pdf(472.66   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

The enormous potential for wireless sensor networks to make a positive impact on
our society has spawned a great deal of research on the topic, and this research is
now producing environment-ready systems. Current technology limits coupled with
widely-varying ...

Keywords: GPS, ZebraNet, sensor deployment, sensor networks

17 Wireless laptop check-out

Tony D. Lovgren
November   SIGUCCS '02: Proceedings of the 30th annual ACM SIGUCCS conference
2002   on User services
Publisher: ACM

Full text available: pdf(202.50
KB)   Additional Information: full citation, abstract, references

In this paper, I describe the strategies used to plan, implement and promote Idaho
State University's wireless laptop check-out initiative.From July 2001 to August 2001,
Idaho State University installed wireless access points in five buildings. Thirty ...

Keywords: checkout, laptop, laptop check-out, support, technical support, wireless,
wireless network

18 The sensor spectrum: technology, trends, and requirements

Joseph M. Hellerstein, Wei Hong, Samuel R. Madden
December   ACM SIGMOD Record, Volume 32 Issue 4
2003
Publisher: ACM

Full text available: pdf(1.64
MB)   Additional Information: full citation, abstract, references, cited by

Though physical sensing instruments have long been used in astronomy, biology,
and civil engineering, the recent emergence of wireless sensor networks and RFID
has spurred a renaissance in sensor interest in both academia and industry. In this
paper, ...

19 Design methodology for PicoRadio networks

J. da Silva, Jr., J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright

March 2001   DATE '01: Proceedings of the conference on Design, automation and test in Europe

Publisher: IEEE Press

Full text available: pdf(328.60 KB)   Additional Information: full citation, references, cited by, index terms

20 Optimal energy allocation and admission control for communications satellites

Alvin C. Fu, Eytan Modiano, John N. Tsitsiklis

June 2003   IEEE/ACM Transactions on Networking (TON),   Volume 11 Issue 3

Publisher: IEEE Press

Full text available: pdf(801.08 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We address the issue of optimal energy allocation and admission control for communications satellites in earth orbit. Such satellites receive requests for transmission as they orbit the earth, but may not be able to serve them all, due to energy limitations. ...

Keywords: communication, dynamic programming, resource allocation, satellite

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